

# **WATER STANDARD NOTES**

Revised January 2022

1. All water mains shall be pressure tested and disinfected in accordance with the most current edition of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge and Municipal Construction (Standard Specifications), National Fire Protection Association (NFPA) 24 and the City of Lynnwood (City) requirements. All pressure testing shall be done in the presence of a representative of the City. All mains shall be sterilized and flushed prior to placing lines into service. The main shall be inspected by the City Public Works inspector prior to backfill. An as-built copy shall be provided to the City prior to Public Works acceptance.
2. Ductile iron pipe shall be new, Class 52, cement-mortar lined, centrifugally cast pipe conforming to the requirements of American Water Works Association (AWWA) C-151 and Standard Specifications 9-30.1(1). Non restrained joints shall be rubber gasket, push on type, or mechanical type meeting the requirements of AWWA C111. Restrained joints shall be as specified in section 9-30.2(6) of Standard Specifications. All pipe shall be clearly marked with the manufacturer's name, type, class and thickness as applicable. All fittings shall be per Standard Specification 9-30.2 and 9-30.2(1).
3. Concrete thrust blocking shall be placed at all bends, tees, dead ends, crosses and as designated by the Public Works Director. Reference City Standard Plans U-WAT-11, U-WAT-12 and U-WAT-13. Blocking shall be poured in place and cured against approved forms and native cut slopes. All blocking shall be inspected and approved prior to back fill.
4. Fire hydrants shall conform to 9-30.5 of the most current addition of the Standard Specifications, AWWA C502, AWWA 110, AWWA C111, NFPA 24 and applicable City specifications and standards. Reference City Standard Plan F-1.
5. Within the City right-of-way and on private property, 2-inch and smaller water service(s) shall be installed per Standard Specification 9-30.6, the approved plans and City Standard Plans U-WAT-1 and U-WAT-2. All services, unless specified, shall be installed by a City-approved contractor and at the developer's expense. All 3-inch and larger services are always installed by the developer at no expense to the City. The 3-inch and larger services shall be installed per the approved plans, Standard Specifications and City Standard 5-3. Taps on existing mains shall be done hot unless approved by the City inspector.
6. A 12-gauge tracer wire shall be installed for all plastic pipe as required by the City Public Works Inspector. Tracer tape is not an acceptable alternative to tracer wire. See detail ST-TRE-3 for wire and tape requirements.
7. Valve boxes shall conform to WSDOT spec. 9-30.3(4) and Lynnwood Standard Plan U-WAT-14.
8. Trench backfill shall be placed per City Standard Plan ST-TRE-3.
9. All water mains to maintain a minimum cover of 36 inches below finish grade; 12 inches minimum separation is required between utilities crossing perpendicularly, (18 inches for sanitary sewer). At no point should these depths exceed 6 feet except when specifically approved on the plans or by the City Public Works Inspector.

10. Existing water service lines between the meter setter and the point of connection that will be reused for new construction shall be Type K copper pipe or as approved by the City.
11. All retired water mains shall be abandoned per WSDOT 7-08.3(4).
12. All pipe is to be laid at true line and grade unless otherwise approved by the City of Lynnwood. At no time shall the maximum pipe deflection exceed the manufacturer's requirements. The maximum permissible deflection per stick is as follows:

Pipe Dia.	Max. Deflection per 18 Feet
4 inches	21 inches
6 inches	19 inches
8 inches	19 inches
10 inches	19 inches
12 inches	19 inches

13. Compaction testing for trenches shall be per Grading Standard Notes.

Acronyms and Terms	Definition
WSDOT	Washington State Department of Transportation
NFPA	National Fire Protection Association
Standard Specifications	WSDOT Standard Specifications
National Standard Thread	National standard fire hose threads
Storz	Storz Adapters